ANALYTICA CHIMICA ACTA

An international journal devoted to all branches of analytical chemistry

(Full texts are incorporated in CJELSEVIER, a file in the Chemical Journals Online database available on STN International; Abstracted, indexed in: Aluminium Abstracts; Anal. Abstr.; Biol. Abstr.; BIOSIS; Chem. Abstr.; Curr. Contents Phys. Chem. Earth Sci.; Engineered Materials Abstracts; Excerpta Medica; Index Med.; Life Sci.; Mass Spectrum. Bull.; Material Business Alerts; Metals Abstracts; Sci. Citation Index)

VOL. 336 NO.1-3

CONTENTS

DECEMBER 30,1996

| Electroanalytical Chemistry and Sensors | |
|---|-----|
| Sodium-selective electrodes based on triester monoacid derivatives of p-tert-butylcalix[4] arene. Comparison with | |
| tetraester calix[4] arene ionophores | |
| T. Grady, A. Cadogan, T. McKittrick, S.J. Harris, D. Diamond (Dublin, Ireland) and | |
| M.A. McKervey (Belfast, UK) | 1 |
| Mass sensitivity of the tube acoustic wave sensor in the extensional mode | |
| P.C.H. Li and M. Thompson (Toronto, ON, Canada) | 13 |
| A polarographic method of speciation for labile metal-ligand systems based on mass-balance equations. A differential | |
| pulse polarographic study at fixed ligand to metal ratio and varied pH | |
| I. Cukrowski (Johannesburg, South Africa) | 23 |
| Selectivity and sensitivity of ultrathin purine-templated overoxidized polypyrrole film electrodes | |
| L.D. Spurlock, A. Jaramillo, A.P.J. Lewis and A. Brajter-Toth (Gainesville, FL, USA) | 37 |
| Electrochemical response of a polypyrrole-dodecylsulphate electrode with multicharged cations and vitamins B ₁ and B ₆ . | |
| Application as a microsensor in flow-injection analysis | |
| R. Carabias Martínez, F. Becerro Domínguez, I.M. Sierra García, J. Hernández Méndez (Salamanca, Spain), | |
| R. Córdova Orellana and R. Schrebler Guzmán (Valparaiso, Chile) | 47 |
| Electrochemical characteristics of a carbon-based thick-film L-lactate biosensor using L-lactate dehydrogenase | |
| H.C. Yoon and HS. Kim (Taejon, South Korea) | 57 |
| Acid phosphatase/glucose oxidase-based biosensors for the determination of pesticides | - |
| F. Mazzei, F. Botrè and C. Botrè (Rome, Italy) | 67 |
| Voltammetric characterisation of an insoluble tetrathiafulvalene derivative by means of modified carbon paste electrode | - |
| KH. Lubert, M. Wagner and RM. Olk (Leipzig, Germany) | 77 |
| Electrochemical studies of ethamivan at glassy-carbon and platinum electrodes and its determination in urine by differential | |
| pulse voltammetry | |
| L. Hernández, A. Zapardiel, E. Bermejo, J.A. Pérez-López and J.C. Pérez-Fernández (Madrid, Spain) | 85 |
| Sol-gel derived, ferrocenyl-modified silicate—graphite composite electrode: Wiring of glucose oxidase | |
| J. Gun and O. Lev (Jerusalem, Israel) | 95 |
| A potentiometric study of cationic heteroconjugation equilibria in systems with substituted pyridine N-oxides in nitrobenzene | - |
| L. Chmurzyński, E. Kaczmarczyk, D. Augustin-Nowacka (Gdańsk, Poland) and P. Barczyński (Poznań, Poland) | 107 |
| E. Simul Lynon, E. Nasemarseyn, S. Nagasim Norrasha (Gaarion, Folaria) and F. Sarozynom (Folaria) | |
| Flow Injection | |
| Flow Injection Determination of L-asparagine using flow-injection systems with spectrophotometric and potentiometric detection | |
| | 113 |
| K. Stein, R. Shi and G. Schwedt (Clausthal-Zellerfeld, Germany) | 113 |
| Direct vapor generation Fourier transform infrared spectrometric determination of ethanol in blood A. Pérez-Ponce, S. Garrigues and M. de la Guardia (Valencia, Spain) | 123 |
| Study of equilibria in cyanide systems by gas-diffusion measurement of hydrogen cyanide | 123 |
| | 131 |
| J.A. Sweileh (Almafraq, Jordan) | 131 |

(Continued overleaf)

| Atomic Absorption Spectrometry | |
|--|-----|
| Column solid-phase extraction of heavy metal ions on a high surface area CeO ₂ as a preconcentration method for trace | |
| determination | |
| E. Vassileva, B. Varimezova and K. Hadjiivanov (Sofia, Bulgaria) | 14 |
| Determination of ultratrace metallic impurities in fluorocarbon polymers by electrothermal atomic absorption | |
| spectrometry after decomposition with a combustion system | |
| M. Takenaka, Y. Yamada, M. Hayashi and H. Endo (Kawasaki, Japan) | 151 |
| | |
| Immunoassay | |
| Towards a homogeneous fluorescence assay for a herbicide: characterization of the interactions of fusilade, | |
| bromomethyl-methoxycoumarin derivatized fusilade, and anti-fusilade IgG antibody | |
| J.D. Brennan, R.S. Brown, H. Cohen, J. Egamino, D. Semchyschyn, R.E. Williams and U.J. Krull (Mississauga, ON, Canada) | 157 |
| Enzyme immunoassay with amperometric flow-injection analysis using horseradish peroxidase as a label. Application to | 101 |
| the determination of polychlorinated biphenyls | |
| M. Del Carlo and M. Mascini (Firenze, Italy) | 167 |
| | 107 |
| A procedure for the immunoanalysis of samples containing one or more members of a group of cross-reacting analytes | 475 |
| G. Jones (Davis, CA, USA), M. Wortberg (Limburgerhof, Germany), B.D. Hammock and D.M. Rocke (Davis, CA, USA) | 175 |
| Simultaneous immunoassay using piezoelectric immunosensor array and robust method | 40. |
| X. Chu, JH. Jiang, GL. Shen and RQ. Yu (Changsha, China) | 185 |
| Chromatography | |
| Liquid chromatography/electrochemical detection of phenols at a Poly[Ni-(Protoporphyrin IX)] chemically modified electrode | |
| V. Campo Dall'Orto, C. Danilowicz, S. Sobral, A. Lo Balbo and I. Rezzano (Buenos Aires, Argentina) | 195 |
| v. dampo bali di to, d. barillowicz, d. dobrai, A. Lo balbo and i. Nezzano (buerlos Aires, Argentina) | 130 |
| Chemometrics | |
| Quality control of paints: Pyrolysis-mass spectrometry and chemometrics | |
| H. Wilcken and HR. Schulten (Taunusstein, Germany) | 201 |
| Neural network learning to non-linear principal component analysis | |
| JH. Jiang, JH. Wang, X. Chu and RQ. Yu (Changsha, China) | 209 |
| | |
| Spectrophotometry | |
| Rapid and simple spectrophotometric determination of oxygen stoichiometry in YBCO superconducting materials | |
| T. Nedeltcheva, L. Costadinova, P. Simeonova and V. Lovchinov (Sofia, Bulgaria) | 223 |
| (33.14) | |
| Book Reviews | 227 |
| | |
| Author Index | 231 |
| | |

.

